



# MRSI Newsletter

*A quarterly publication of the Materials Research Society of India  
for circulation amongst its members*

**Volume B 13, Number 3**

**July 2013**

## From the Editors' Desk

Materials science is an interdisciplinary field applying the properties of matter to various areas of science and technology. The projects related to materials science involve scientists with various academic backgrounds including materials scientists, physicists, chemists, engineers and technicians. In order to bring scientists of different backgrounds, Materials Research Society of India (MRSI) on behalf of the International Union of Materials Research Society, is organizing International conference in ASIA - 2013 (IUMRS-ICA 2013) at Indian Institute of Science, Bangalore-560012, India under the aegis of MRSI. The conference will provide a platform for the scientists from ASIA to present and discuss the research in the field of Materials Science. For the detailed information about the conference, interested persons are advised to visit the website at <http://www.iumrs-ica2013.org.in/>.

*For more details about the activities of MRSI, members are advised to visit the society's website at*

**www.mrsi.org.in**

## In this issue

From the Editors' Desk	1
Awards & Distinctions	2
Students' Projects	2
Notification	2
New MRSI Website	2
G C Jain Memorial Prize	3
IUMRS-ICA 2013	4
Announcement	7
New Members	8
Calendar of Events	11
An Update of MRSI	12
Patron Membership	24

## **MRSI NEWSLETTER**

**Volume B 13, Number 3  
July 2013**

The MRSI Newsletter is a quarterly update published by the Materials Research Society of India. Members are requested to contribute information of interest to Materials Science community. Members can inform through the Newsletter, recognitions/awards received by them, changes in address, forthcoming events, and any interesting scientific/technological developments in the area of materials. The relevant information should be sent to the following address:

### **Editors**

### **MRSI Newsletter**

Materials Research Society of India  
IISc Campus, Bangalore 560 012, India

Email: [office@mrsi.org.in](mailto:office@mrsi.org.in)  
[nanda@mrc.iisc.ernet.in](mailto:nanda@mrc.iisc.ernet.in)

### **Awards & Distinctions Conferred on Members**

We are happy to report that the following members of Materials Research Society of India have received awards and distinctions shown against their names. MRSI congratulates them.

<b>Arjun Dey</b>	Dr. R L Thakur Memorial Award
<b>V P S Awana</b>	DAE-SRC Outstanding Investigator Award (2012)
<b>Dipti P Das</b>	CSIR Young Scientist Award in Chemical Sciences (2012)
<b>R P Singh</b>	President-Indian Academy of Sciences (2014-15)
<b>Amlan J Pal</b>	Fellow, Indian National Academy of Engineering
<b>G S Upadhyaya</b>	SAMSONOV AWARD-Ukrainian Materials Research Society (2013)
<b>Navin Chand</b>	The Institution of Engineers National Award – Textile Board

*P.S: Members are requested to communicate to the Editorial office about the Awards, Honours and Distinctions they have received from various agencies.*

### **STUDENTS' PROJECTS**

MRSI would be supporting projects of students doing B.Tech, M.Tech, ME, M.Phil, Ph.D in the area of Materials Science and Technology. The projects should be undertaken under the supervision of a MRSI member. The students can submit their proposals to the MRSI office before **October 31<sup>st</sup> 2013**. After the projects are approved, the students would be supported financially (registration waiver, II class AC train travel and local hospitality) for participating in the AGM of MRSI to present the results of the projects approved.

### **NOTIFICATION**

*Nominations for the MRSI Awards/Prizes and Medals for the year 2013*

**Nominations** are invited from the **Members of the Council of MRSI** for the following:

- Distinguished Materials Scientist of the year award (1)
- MRSI-ICSC Superconductivity & Materials Science Senior Award (1)
- MRSI-ICSC Superconductivity & Materials Science Annual Prizes (2)
- MRSI Medal Lectures
- Honorary Members

The last date for the receipt of nominations at Bangalore office of MRSI is **July 31, 2013**.

# G C JAIN MEMORIAL PRIZE FOR THE BEST Ph.D THESIS IN MATERIALS SCIENCE

*The Council of MRSI decided to award an annual prize one in each calendar year for the best Ph.D. thesis in the area of Materials Science. The funds for this prize have been raised by the friends and students of Dr. G C Jain. The Guidelines and the Application form are furnished hereunder:*

## Guidelines

1. The prize will be given each year for the best Ph.D thesis in the broad multi disciplinary field of Materials Science, in disciplines such as Condensed Matter Physics, Chemistry, Biology, Metallurgy, Ceramics and Chemical Engineering.

### 2. Criteria for Selection

-Completion of Ph.D thesis from any recognized Indian University/Research Institute/National Laboratory within the last two calendar years (2012, 2013 for the current prize)

-Three recommendation letters should be enclosed including one from the thesis supervisor along with a one-page write-up highlighting the prime results of the thesis.

-Quality of the work will be judged in the first stage by the Publications, Reports and Patents resulting from the thesis work.

-The shortlisted theses will be selected after peer reviewing during November/December. Such shortlisted theses work must be presented by the students concerned in poster/oral format at the next AGM of MRSI. The final selection will be done at the AGM by a suitably constituted committee.

3. The award will have a cash prize of Rs. 6000/- and a certificate from MRSI.

4. Application in the prescribed format reproduced alongside should be sent to the Secretary, MRSI so as to reach him on or before **October 31<sup>st</sup>, 2013**.

## Application Form

photo

### G C Jain Memorial Prize for the Best Ph.D Thesis in Materials Science

1. **Name of the Applicant** :
2. **Address** :  
Office :  
Residence :  
Telephone :  
Fax :  
Email :
3. **Academic Record**  
(in brief) (Degree/year of passing/University) :
4. **Title of the Ph.D Thesis:**
  - a) The discipline or subject in which the Ph.D degree was awarded :
  - b) Name of the University/Laboratory/Institute :  
where the Ph.D work was carried out
  - c) Name of the Research Supervisor :
  - d) Date of submission of the thesis :
  - e) Date of Award of Ph.D :
  - f) One page write-up of the thesis highlighting the prime results  
(to be enclosed) enclosed/not enclosed
5. **Recommendation Letters**  
(from the thesis supervisor and 2 other experts)  
(to be enclosed) enclosed/not enclosed
6. **List of Publications based on the thesis work**  
in Journals, Reports, Conferences, Patents (to be enclosed)  
Give Title of the Paper, Authors, Journal, Vol / Page/ Year for Journal Publications  
enclosed/not enclosed
7. **Any additional information**

Date :

Signature

## **IUMRS-ICA 2013**

**International Conference on Materials Science in Asia**

**16-20 December 2013, Bangalore, India**

**Venue: INDIAN INSTITUTE OF SCIENCE**

As you are aware MRSI will be organizing the IUMRS-ICA 2013 in Bangalore, India during December 16-20, 2013. The programme will consist of (i) Plenary Lectures (ii) Invited Lectures (iii) Oral Presentations (iv) Poster Presentations and (v) Public Lectures. It will be a five day conference with more than ten parallel sessions. We are giving below the *tentative list* of chairs/co-chairs of the various theme symposia. For further details refer to website [www.iumrs-ica2013.org.in](http://www.iumrs-ica2013.org.in)

<b>Theme Symposia</b>	<b>Chair / Co-chairs /</b>	
<b>Silicon Germanium</b>	Chair Co-chairs	S K Ray (IIT, KGP) Navakanta Bhat (IISc, Bangalore) Shunri Oda,( TIT, Japan) Pei-Wen Li (NCU, Taiwan)
<b>Oxide Electronics</b>	Chair Co-chairs	M S R Rao (IIT, Chennai) M K Jayaraj (CUSAT, Cochin) Tatsuo OKADA (Kyushu University,Japan)
<b>III-V and II-VI</b>	Chair Co-chairs	R Muralidharan (SSPL, Delhi) S Chakrabarti (IIT, Mumbai) A Raman (IMRE, Singapore)
<b>Carbon and Graphene</b>	Chair Co-chairs	S Sampath (IISc, Bangalore) K K Nanda (IISc, Bangalore)
<b>Organic Electronics</b>	Chair Co-chairs	Ramgopal Rao V (IIT,Mumbai) M Onoda ( Hyogo University,Japan) Subodh Mhaisalkar (NTU, Singapore) Satish Patil (IISc, Bangalore)
<b>Photonic Materials</b>	Chair Co-chairs	D Narayana Rao (Central University, Hyderabad) K Thyagarajan (IIT, Delhi) Reji Philip (RRI, Bangalore)
<b>Nanomaterials Synthesis: Solutions Route</b>	Chair Co-chairs	Byrappa K (Mys. Univ) M Yoshimura (Tokyo Inst., Japan) M Eswaramoorthy (JNCASR, Bangalore) Young-Jei Oh (KIST, Korea)
<b>Nanomaterials: Devices and applicastions</b>	Chair Co-chairs	Enakshi Bhattacharya(IIT, Madras) A K Ganguli (IIT, Delhi)
<b>Nitride Electronics</b>	Chair Co-chairs	S M Shivaprasad (JNCASR, Bangalore) Katsumi Kishino (Tokyo University) Dipankar Saha(IIT, Mumbai) Srinivasan Raghavan (IISc, Bangalore) Subhabhrata Dhar (IITB, Mumbai)

<b>Magnetic and Spintronics</b>	Chair Co-chairs	A Sundaresan (JNCASR, Bangalore) K G Suresh (IIT, Mumbai) Ding Jun (NUS , Singapore) T Kimura (Osaka University)
<b>Hybrids and Composites</b>	Chair Co-chairs	S Natarajan (IISc, Bangalore) Amlan J Pal (IACS, Kolkata)
<b>Ferroics</b>	Chair Co-chairs	D Pandey (BHU, Varanasi)
<b>Superconductors</b>	Chair Co-chairs	R C Budhani (NPL, Delhi) C S Sundar (IGCAR)
<b>Glasses</b>	Chair Co-chairs	G P Kothiyal (BARC) Sujatha Devi P (CGCRI)
<b>Electro Ceramics</b>	Chair Co-chairs	K B R Varma (IISc, Bangalore) Ajit Kulkarni (IIT, Mumbai)
<b>Inorganic PV</b>	Chair Co-chairs	K Baskar (Anna University, Chennai)
<b>Organic PV</b>	Chair Co-chairs	Suresh Das (NIIST) Parameswara Iyer (IIT, Guwahati) S Hayase (Kyushu Inst., Japan)
<b>Hybrids</b>	Chair Co-chairs	B R Mehta (IIT, Delhi) M Iji (Japan)
<b>Batteries, Fuel Cells and Supercapacitors</b>	Chair Co-chairs	A K Shukla (IISc, Bangalore) K Vijaymohanan Pillai (CECRI) N Saito (Japan) Jeng-Kuei Chang (NCU, Taiwan)
<b>Thermoelectrics</b>	Chair Co-chairs	Satish Vitta (IIT, Mumbai) Yoshikazu Shinohara (Japan) Ryoji Funahashi (NIAIST, Japan) Ajay Dhar (NPL, New Delhi)
<b>Composites</b>	Chair Co-chairs	L M Manocha (S P University) Kim H D (Korea) Mansurov Zulkhair
<b>Amorphous Materials and Coatings</b>	Chair Co-chairs	U Ramamurthy (IISc, Bangalore)
<b>Light Metals and Alloys</b>	Chair Co-chairs	Amol Anant Gokhale (DMRL, Hyderabad) Alok Singh (NIMS, Japan)

<b>Computational materials Science</b>	Chair Co-chairs	G P Das (IACS, Kolkata) Shobhana Narasimhan (JNCASR, Bangalore) Yuan Ping Feng, (NUS, Singapore) Kwang- Ryeol Lee ( KIST, Korea) Jun Nakamura (University of Electro-Communications Tokyo, Japan)
<b>Simulation and Modelling</b>	Chair Co-chairs	Abhishek Singh (IISc, Bangalore) U V Waghmare (JNCASR, Bangalore) Y Kawazoe (Tohoku, Japan)
<b>Electron Microscopy</b>	Chair Co-chairs	N Ravishankar (IISc, Bangalore) Ranjan Datta (JNCASR, Bangalore)
<b>Scanning Probe Microscopy</b>	Chair Co-chairs	Jaydeep Basu (IISc, Bangalore)
<b>Spectroscopy</b>	Chair Co-chairs	Chandrabhas Narayana (JNCASR, Bangalore) Balaji Jagirdar (IISc, Bangalore)
<b>Biosensors</b>	Chair Co-chairs	Soumyo Mukherji (IIT, Mumbai) Manoj Varma (IISc, Bangalore)
<b>Nanomedicine- Tissue Engineering</b>	Chair Co-chairs	Ashok Raichur (IISc, Bangalore)
<b>Cell-Material Interaction</b>	Chair Co-chairs	Bikramjit Basu (IISc, Bangalore) M Jayabalan (SCTIMST, Thiruvananthapuram) Sriram Ramakrishna (NUS, Singapore)

# **ANNOUNCEMENT**

To mark the Silver Jubilee year of MRSI, we are planning to issue membership cards to all its members. Kindly use the format given hereunder to update your details and send the same by return mail (membership@mrsi.org.in). You are also requested to affix your recent photograph in the format.

*Members who have already responded to our email may kindly ignore this.*

## **FORMAT**

**photograph**

<b>NAME</b>	
<b>MEMBERSHIP NUMBER</b>	
<b>MAILING ADDRESS</b>	
<b>TELEPHONE</b>	
<b>FAX</b>	
<b>EMAIL</b>	
<b>DATE OF JOINING MRSI</b>	
<b>MRSI CHAPTER YOU COME UNDER</b>	
<b>AREAS OF INTEREST</b>	

## New Members

Enrolled between April 1 and June 30, 2012

### Life Members

(LMB2161)

Bhaskar Vinayak Tamhankar  
Department of Chemistry  
Jaysingpur College  
Jaysingpur Tal-Shirol  
Kolhapur 416 101  
Tel (Off): 02322-226481  
Email ID :  
bvtamhankar@rediffmail.com

(LMB2162)

Smita Sunil Mahajan  
Department of Physics  
Jaysingpur College  
Jaysingpur Tal-Shirol  
Kolhapur 416 101  
Tel (Off): 02322-2264821  
Email:  
dr\_smitasunilmahajan@yahoo.com

(LMB2163)

Gurunath Hanmant Nikam  
Department of Chemistry  
Jaysingpur College  
Jaysingpur Tal-Shirol  
Kolhapur 416 101  
Tel (Off): 02322-226481  
Email: sgunrath.nikam@gmail.com

(LMB2164)

Mrinmay Kumar Mukhopadhyay  
Applied Materials Science Division  
Saha Institute of Nuclear Physics  
1/AF, Bidhannagar, Sector 1  
Kolkata 700 064  
Tel (Off): 033-23375345 Ext. 2521  
Fax: 033-23374637  
Email:  
mrinmay\_mukhopadhyay@saha.ac.in

(LMB2165)

Anoop Krishnan K  
Chemical Sciences Division  
Centre for Earth Science Studies  
(CESS), Ulloor Akkulam Rd  
Thiruvananthapuram 695 031  
Tel (Off): 0471-2511690  
Fax: 0471-2442280  
Email: sreeanoop@rediffmail.com

(LMB2166)

Sivapragash Murugesan  
Professor of Mechanical Engineering  
Noorul Islam University  
Kumarcoil, Thuckalay  
Kanyakumari District 629 180  
Tel (Off): 04651-250462  
Email: mspragash@rediffmail.com

(LMB2167)

Vimalchand Harakchand Bafna  
V H Bafna, FG 2GCS  
G and AMD, GCTL, BLDG  
Bhabha Atomic Research Centre,  
Trombay, Mumbai 400 085  
Tel (Off): 022-25660  
Email: vhb@barc.gov.in

(LMB2168)

Saswati Bandyopadhyay Roy  
UED, RUMP, S Site  
Bhabha Atomic Research Centre,  
Trombay, Mumbai 400 085  
Tel (Off): 022-25599615  
Email: mrsued@barc.gov.in

(LMB2169)

Nachiket Avinash Keskar  
B 296-H, MOD LAB, D Block  
Bhabha Atomic Research Centre  
Trombay, Mumbai 400 085  
Tel (Off): 022-25593289  
Email: nachiket@barc.gov.in

(LMB2170)

Mozahir Hussain M D  
15-F, Malayagiri  
Anushakthinagar  
Mumbai 400 094  
Tel (Off): 022-25595671  
Email: hussain@barc.gov.in

(LMB2171)

Madanagopal Krishnan  
Glass and Advanced Materials Division  
Bhabha Atomic Research Centre  
Trombay, Mumbai 400 085  
Tel (Off): 022-25595354  
Fax: 022-25505151  
Email: madangk@barc.gov.in

(LMB2172)

Shiva Prasad  
Physics Department  
Indian Institute of Technology-Bombay  
Powai, Mumbai 400 076  
Tel (Off): 022-25767571  
Email: shivap@physics.iitb.ac.in

(LMB2173)

Sachin Jagadeo Pawar  
Department of Physics  
Shri Vijaysinha Yadav Arts and  
Science College  
Peth Vadgaon  
Kolhapur 416 112  
Tel (Off): 0230-2471599  
Email: sachinpawar91@yahoo.co.in

(LMB2174)

Brajraj Sharam  
P.No. - 10-16, Sector 1  
Pratap Nagar, Housing Board  
Sanganeir, Jaipur  
Tel (Off): 0141-5160400  
Email: raj.braj12@gmail.com

(LMB2175)

Chitra Manro  
416, Ranisati Nagar  
Ajmer Road, Jaipur 302 019  
Tel (Off): 0141-5160400  
Email: manrochitra@gmail.com



(LMB2176)  
Praveen Kumar Jain  
Plot No. 8, Vishvidyalayapuri  
Gopalpura Bypass  
Jaipur 302 018  
Tel (Off): 0141-5160400  
Email: praveenjain.spsl@gmail.com

(LMB2177)  
Raj Kumar Jain  
Jain Kunj, 200 Janta Nagar  
Ajmer Road, Sodala  
Jaipur 302 006  
Tel (Off): 0141-5160400  
Email: rkskit@gmail.com

(LMB2178)  
Shyam Sunder Sharma  
Department of Physics  
Government Women Engineering College  
Nasirabad Road, Mathupura  
Ajmer 305 002  
Tel (Off): 0145-2695535  
Fax: 0145-2695102  
Email: sharmass2@gmail.com

(LMB2179)  
Neethu S  
SH-1/208, Phase I  
DRDO Township, CV Raman Nagar  
(P.O), Bangalore 560 093  
Email: neethu.suneetha@gmail.com

(LMB2180)  
Pradyot Dutta  
151/1/1, Sarat Ghosh Garden Road  
Dhakuria  
Kolkata 700 031  
Fax: 033-24730957  
Email: pradyot.datta@gmail.com

(LMB2181)  
Vittal Prasad Bandi  
Department of Physics  
Nizam College, Basheerbagh  
Hyderabad  
Email: vittal\_bandi@osmania.ac.in

(LMB2182)  
Shounak De  
Department of Electronics and  
Communication Engineering  
Manipal Institute of Technology  
Manipal 576 104  
Email: shounak80@yahoo.com

(LMB2183)  
Ankit Sahai  
Department of Mechanical Engineering,  
Faculty of Engineering  
Dayalbagh Educational Institute,  
Dayalbagh, Agra 282 110  
Tel (Off): 0562-6548399  
Email: sahaiankit@dei.ac.in

(LMB2184)  
Sonal Sahai  
Department of Physics and Computer  
Science, Faculty of Science  
Dayalbagh Educational Institute,  
Dayalbagh, Agra 282 110  
Tel: 09319104320  
Email: sonalsatsangi@gmail.com

(LMB2185)  
Renu Tyagi  
Solid State Physics Laboratory  
Timarpur, Delhi 110 054  
Tel (Off): 011-23903717  
Email: renu\_tyagi@rediffmail.com

(LMB2186)  
Premila Mohan  
Solid State Physics Laboratory  
Timarpur, Delhi 110 054  
Tel (Off): 011-23903895  
Email: premilamohan@gmail.com

(LMB2187)  
Ajeet Kumar Srivastava  
School of Computing and Information  
Technology, Lovely Professional  
University, GT Road, (NH-1), Phagwara  
Punjab 144 411  
Tel (Off): 824444053  
Fax: 01824-506111  
Email: srivastava\_phy@yahoo.co.in

(LMB2188 )  
Pradip Kar  
Department of Applied Chemistry  
Birla Institute of Technology  
Mesra, Ranchi 835 215  
Tel (Off): 0651-2275476  
Fax: 0651-2275401  
Email: pradipkqp@gmail.com

(LMB2189)  
Sheela Devi Malik  
Department of Applied Sciences  
Maharaja Surajmal Institute of  
Technology, C-4, Janakpuri  
New Delhi 1100 58  
Tel: 9968493080  
Email: physics-sheela@yahoo.co.in

(LMB2190)  
Nikhil Ranjan Jana  
Indian Association for the Cultivation of  
Science, Centre for Advanced Materials  
Jadavpur  
Kolkata 700 032  
Tel (Off): 033-24734971  
Fax: 033-24732805  
Email: camnrj@iacs.res.in

(LMB2191)  
Pawan Kumar Jain  
Centre for Carbon Materials  
ARC-International  
Balapur P.O  
Hyderabad 500 005  
Tel (Off): 040-24441469  
Fax: 040-24442699  
Email: pkjain@arci.res.in

(LMB2193)  
Nehra S P  
Centre for Excellence for Energy and  
Environmental Studies  
Deenbandhu Chhotu Ram University of  
Science and Technology  
Murthal, Sonapat  
Haryana 131 039

## Annual Members

Mohit Bector (AMB249)  
27-D, Rani Bagh  
Mahesh Nagar, Ambala Cantt  
Haryana 133 001  
Tel (Res) : 9541674447  
Email: bector.mohit@gmail.com,

Krishan Kant Sharma (AMB250)  
Street No. 2, Near Shiv Chandi Mandir  
Shanti Nagar  
Kurukshetra 136 118  
Tel ( Off): 092152 52551  
Tel (Res): 09466270234  
Fax: 0171-2630115  
Email: krishan26@sify.com,

Durairajan Arulnandhi(AMB251)  
Door No. 174, Arulnandhi Nagar  
8th Cross  
Thanjavur 613 006  
Tel (Off): 7418372548  
Email: nanodurairajan@gmail.com,

Venkob Rao Madeva Rao(AMB252)  
Dhalavaipalli Village  
Samantha Malai Post  
Krishnagiri District  
Krishnagiri 635 115  
Tel (Res): 9962818125  
Email: vko.civil@gmail.com

Akhilesh Vikram Singh(AMB253)  
Biomaterials Lab  
Department of Materials Engineering  
Indian Institute of Science  
Bangalore  
Tel(Res): 9880342352  
Email: akhileshvikram@gmail.com

Usha Chandra (AMB254)  
High Pressure Physics Lab  
Department of Physics  
University of Rajasthan  
Jaipur 302 004  
Tel (off): 0141-2707423  
Email ID: ushac6807@gmail.com

Somashekarayya S Bellad (AMB255)  
Asst Prof. in Physics  
Maharani's Science College for  
Women, Palace Road  
Bangalore 560 001  
Tel (Off): 8088812096

Sudhir Shridhar Kamble (AMB256)  
BEBEL-DRDO  
ADE Campus, C V Raman Nagar  
Bangalore 560 093  
Tel (Off):080-25058388  
Email: skamble.drdocsci@gmail.com

Shiv Singh (AMB257)  
F-104, Hall 8  
Indian Institute of Technology  
Kanpur 208 016  
Email: shiv\_singh\_17@yahoo.com

Pramod Jayaprakash (AMB258)  
S/o Sri. Jayaprakash  
H.No.6-1-74, Vednagar  
Gadwal 509 125  
Tel (Off): 08415-200193  
Tel (Res): 08546-271006  
Email: jayaprakashpramod@gmail.com

Vinod Kumar (AMB259)  
Department of Physics  
Deenbandhu Chhotu Ram University of  
Science and Technology, Murthal ,  
Sonapat, Haryana  
Tel (Off): 0130-2484136  
Tel (Res): 09468123434  
Email: vndkumar933@gmail.com

### ANNOUNCEMENT

As discussed at the MRSI Council Meeting, all those chapters who are interested in conducting their annual activities can make a proposal to MRSI, including the budget required for the year 2012-13 and accordingly, the seed money would be sanctioned to the chapters for conducting their activities. Please note that the council decided to consider a maximum of 3 chapter activities per year for sanctioning the seed money. All the proposals from the local chapters will have to reach MRSI office on or before **July 31<sup>st</sup>, 2013**.

## **CALENDAR OF EVENTS**

**(Sep 2013- February 2014)**

**5-6 September 2013**, First Asia Pacific Rubber Conference (APRC) 2013, Associate Professor Dr. Charoen Nakason, Chairman for APRC2013 , Vice president for Prince of Songkla University, Surat Thani Campus, Director-Center of Excellence in Natural Rubber Technology, Prince of Songkla University, Surat Thani, THAILAND, Mobile +66 89 6585826, websie: <http://www2.surat.psu.ac.th/aprc/index.php>

**16-20, December, 2013**, IUMRS International Conference in Asia (IUMRS-ICA 2013), Indian Institute of Science, Bangalore 560 012, India, Website: [www.iumrs-ica2013.org.in](http://www.iumrs-ica2013.org.in)

**12-14 February 2014**, 25th Annual General Meeting of MRSI, Indian Institute of Science, Bangalore 560 012. More details will follow.

**Members are requested to give information about the conferences/symposia/workshops they are organizing well in advance so that the same can be inserted in the “calendar of events”**

# AN UPDATE OF MRSI ACTIVITIES

The MRSI Update is a consolidated statement of the major activities and achievements of MRSI. The MRSI has completed 24 years of activity and in this update, the following information is given.

- Membership status
- Awards & Honours
- Information Collection & Dissemination System
- Publications
- International Cooperation
- Annual General Meetings

## Membership Status

MRSI has the following classes of membership. The status as on June 30, 2013 is:

<b>Life Members</b>	<b>: 3203</b>
<b>Annual Members</b>	<b>: 23</b>
<b>Honorary members</b>	<b>: 162</b>
<b>Patron members</b>	<b>: 83</b>

## Awards and Honours

### International Award for Materials Science and Technology

This prize is awarded once in 2 years.

Prof. CNR Rao, JNCASR, Bangalore (2009)  
Prof. Martin Jansen, Max-Planck Institut, Germany (2011)  
Prof. Sir. Richard Friend, Cambridge University, UK (2013)

### CNR Rao Prize Lecture in Advanced Materials

Prof. S B Krupanidh (IISc, Bangalore) (2010)  
Dr. S Banerjee, DAE, Mumbai (2011)  
Prof. A K Sood, IISc, Bangalore (2012)  
Prof. M K Sanyal, SINP, Kolkata (2013)

### Distinguished Materials Scientist of the Year Award

The chosen scientist delivers special Honour Lecture on the occasion of the MRSI Annual Meeting.

Prof. S Ramaseshan (1990)  
Prof. E C Subba Rao (1991)  
Prof. T R Anantharaman (1992)  
Prof. C N R Rao (1993)  
Dr. M S Valiathan (1994)  
Prof. K L Chopra (1995)  
Dr. R Chidambaram (1996)  
Dr. Paul Ratnasamy (1997)  
Dr. P Rama Rao (1998)  
Prof C V Sundaram (1999)  
Dr. R A Mashelkar (2000)  
Prof. S Ranganathan (2001)  
Prof. K J Rao (2002)  
Prof. A K Barua (2003)  
Prof. T V Ramakrishnan (2004)  
Prof. K T Jacob (2005)

Prof. N Kumar (2006)  
Dr. V K Aatre (2007)  
Dr. S Banerjee (2008)  
Dr. Baldev Raj (2009)  
Prof. S K Joshi (2010)  
Dr. S Sivaram (2011)  
Prof. Vikram Kumar (2012)  
Dr. T Ramasami (2013)

### MRSI-ICSC Superconductivity and Materials Science Award (Senior)

This prize is awarded once in three years.

Prof. CNR Rao, (JNCASR, Bangalore) (1993)  
Dr. P Rama Rao, (UOH, Hyderabad) (1996)  
Dr. S K Joshi, (NPL, New Delhi) (1999)  
Dr. M S Valiathan (MAHE, Manipal) (2002)  
Prof. P Ramachandra Rao (BHU, Varanasi) (2005)  
Dr. J V Yakhmi (BARC, Mumbai) (2008)  
Dr. P R Vasudeva Rao (IGCAR, Kalpakkam) (2011)

### MRSI Distinguished Lecturership Award

This prize is awarded once in 2 years.

Dr. M.S. Valiathan (SCTIMST, TRV) (1993-1994)  
Prof. S. Ranganathan (IISc, Bangalore) (1995-1996)  
Prof. G.V. Subba Rao (CECRI, Karaikudi) (1997-1998)  
Dr. P. Ramachandra Rao (NML, Jamshedpur) (1999-2000)  
Dr. P. Rodriguez (IGCAR, Kalpakkam) (2001-2002)  
Dr. S. Sivaram (NCL, Pune) (2003-2004)  
Prof. S. Dattagupta (SNBNCBS, Kolkata) (2005-2006)  
Dr. A K Singh (NAL, Bangalore) (2007-2008)  
Dr. R P Singh (Pune) (2009-2010)  
Prof. Ashutosh Sharma (IIT, Kanpur) (2011-2012)  
Dr. Suresh Das, NIIST, Thiruvananthapuram (2013-2014)

### MRSI-ICSC Super Conductivity and Materials Science Annual Prize Winners

These prizes are awarded annually to two scientists.

Dr. A V Narlikar, NPL, New Delhi (1991)  
Prof. G V Subba Rao, IIT, Madras (1991)  
Prof. S B Ogale, UOP, Pune (1992)  
Prof. J Gopalakrishnan, IISc, Bangalore (1992)  
Dr. P Chaddah, CAT, Indore (1993)  
Dr. A K Gupta, NPL, New Delhi (1993)  
Prof. S K Malik, TIFR, Mumbai (1994)  
Dr. P Ganguly, NCL, Pune (1994)  
Prof. L C Gupta, TIFR, Mumbai (1995)  
Dr. D Chakravorty, IACS, Kolkata (1995)  
Prof. K J Rao, IISc, Bangalore (1996)  
Dr. J V Yakhmi, BARC, Mumbai (1996)  
Prof. A K Barua, IACS, Kolkata (1997)  
Dr. Anil Kakodkar, BARC, Mumbai (1997)  
Dr. P Rodriguez, IGCAR, Kalpakkam (1998)  
Prof. R Vijayaraghavan, TIFR, Bombay (1998)  
Dr. Y R Mahajan, ARC-I, Hyderabad (1999)  
Dr. T S Radhakrishnan, IGCAR, Kalpakkam (1999)  
Dr. N V Madhusudana, RRI, Bangalore (2000)

Dr. C K Gupta, BARC, Mumbai (2000)  
 Dr. S K Sikka, BARC, Mumbai (2001)  
 Dr. D Banerjee, DMRL, Hyderabad (2001)  
 Prof. P Ramachandra Rao, NML, Jamshedpur (2002)  
 Prof. A K Raychaudhuri, IISc, Bangalore (2002)  
 Dr. S Banerjee, BARC, Mumbai (2003)  
 Dr. B M Arora, TIFR, Mumbai (2003)  
 Prof. Dhananjai Pandey, BHU, Varanasi (2004)  
 Prof. S B Krupanidhi, IISc, Bangalore (2004)  
 Dr. Baldev Raj, IGCAR, Kalpakkam (2005)  
 Prof. G. Ananthakrishna, IISc, Bangalore (2005)  
 Prof. A K Shukla (IISc, Bangalore & CECRI, Karaikudi) (2006)  
 Dr. G Sundararajan (ARC-I, Hyderabad) (2006)  
 Prof. M K Surappa (IISc, Bangalore) (2007)  
 Dr. C S Sundar (IGCAR, Kalpakkam) (2007)  
 Dr. K S Narayan (JNCASR, Bangalore) (2008)  
 Prof. V Ramgopal Rao (IIT-Mumbai) (2008)  
 Dr. C P Sharma, (SCTIMST, Thiruvananthapuram) (2009)  
 Dr. H S Maiti, (CGCRI, Kolkata) (2009)  
 Dr. N Kumar (Defence Laboratory, Jodhpur) (2010)  
 Prof. O N Srivastava (BHU, Varanasi) (2010)  
 Prof. D Bahadur (IIT, Mumbai) (2011)  
 Prof. G U Kulkarni (JNCASR, Bangalore) (2011)  
 Prof. L M Manocha (SP University, Gujarat) (2011)  
 Prof. S M Shivaprasad, JNCASR, Bangalore (2012)  
 Dr. Amlan J Pal, IACS, Kolkata (2012)  
 Prof. R P Tandon, University of Delhi, Delhi (2012)  
 Dr. M P Janawadkar, IGCAR, Kalpakkam (2013)  
 Dr. R Muralidharan, SSPL, Delhi (2013)

### **MRSI Medal Lectures**

MRSI Medals are awarded in recognition of excellence in a particular field of expertise within the domain of materials and processes. Recipients of these medals are invited to deliver lectures at the MRSI Annual Meeting. So far 305 Medals have been awarded. The MRSI Medal winners for the years 1990 to 2010 are listed below:

#### **1990**

Prof. S. B. Ogale, University of Poona, Pune  
 Dr. P. Muralidharan, SSPL, Delhi  
 Prof. S. V. Subramanyam, IISc, Bangalore  
 Prof. K. Chattopadhyay, IISc, Bangalore  
 Dr. V. Chandrasekharan, DMRL, Hyderabad  
 Prof. D. D. Sarma, IISc, Bangalore  
 Prof. Manu Multani, TIFR, Mumbai  
 Dr. A. M. Varaprasad, DMSRDE, Kanpur  
 Prof. G. V. Subba Rao, IIT, Madras  
 Dr. D. Pandey, BHU, Varanasi  
 Dr. S. Sivaram, NCL, Pune  
 Dr. M. K. Sridhar, NAL, Bangalore  
 Prof. C. Lakkad, IIT, Mumbai  
 Prof. K. A. Padmanabhan, IIT, Madras  
 Dr. N. C. Birla, DMRL, Hyderabad  
 Dr. S. Banerjee, BARC, Mumbai

#### **1991**

Prof. S. Ranganathan, IISc, Bangalore  
 Dr. A. H. Sequeria, BARC, Mumbai  
 Dr. A. K. Sreedhar, SSPL, New Delhi  
 Prof. A. K. Barua, IACS, Kolkata  
 Dr. H. S. Maiti, CGCRI, Kolkata

Prof. R. Srinivasan, IIT, Madras  
 Prof. B. K. Sadashiva, RRI, Bangalore  
 Dr. O. P. Bahl, NPL, New Delhi  
 Dr. D. Banerjee, DMRL, Hyderabad  
 Dr. J. Mukherji, CGCRI, Kolkata  
 Prof. D. N. Bose, IIT, Kharagpur  
 Dr. A. K. Singh, NAL, Bangalore  
 Dr. S. K. Sikka, BARC, Mumbai  
 Prof. J. Gopalakrishnan, IISc, Bangalore  
 Dr. C. K. Gupta, BARC, Mumbai  
 Dr. P. Rodriguez, IGCAR, Kalpakkam  
 Dr. V. M. Nadkarni, NCL, Pune

#### **1992**

Dr. B. K. Das, NPL, New Delhi  
 Prof. Vikram Kumar, IISc, Bangalore  
 Prof. S. Mohan, IISc Bangalore  
 Prof. G. Ananthakrishna, IISc, Bangalore  
 Dr. R. Thyagarajan, SSPL, Delhi  
 Prof. D. Chakravorty, IACS, Kolkata  
 Dr. Baldev Raj, IGCAR, Kalpakkam  
 Dr. A. D. Damodaran, RRL, Thiruvananthapuram  
 Dr. S. R. Rajagopalan, NAL, Bangalore  
 Dr. Pradip, TRDDC, Pune  
 Prof. P. Pramanik, IIT, Kharagpur  
 Dr. Y. R. Mahajan, DMRL, Hyderabad  
 Dr. G. Sundararajan, DMRL, Hyderabad  
 Prof. K. T. Jacob, IISc, Bangalore  
 Prof. P. Ramasamy, Anna Univ. Chennai  
 Dr. S. P. Garg, BARC, Mumbai  
 Prof. P. Ganguly, NCL, Pune  
 Prof. S. Banerjee, NML, Jamshedpur  
 Dr. R. Sivakumar, SCTIMST, TRV  
 Dr. N. Balasubramanian, Everest Ltd., Bangalore  
 Dr. C. G. Krishnadas Nair, HAL, Bangalore

#### **1993**

Dr. D. Ganguli, CGCRI, Kolkata  
 Prof. G. S. Upadhyaya, IIT, Kanpur  
 Dr. K. C. Patil, IISc, Bangalore  
 Dr. S. K. Date, NCL, Pune  
 Dr. L. Madhav Rao, BARC, Mumbai  
 Dr. Sanak Mishra, SAIL (R & D) Ranchi  
 Dr. Krishan Lal, NPL, New Delhi  
 Dr. A K Chatterjee, ACC Ltd, Thane  
 Prof. O. Prabhakar, IIT, Chennai  
 Dr. S. L. Mannan, IGCAR, Kalpakkam  
 Prof. K. V. S. Rama Rao, IIT, Chennai  
 Dr. C. Ganguly, BARC, Mumbai  
 Dr. R B Subramanyam, DMRL, Hyderabad  
 Prof. K A Natarajan, IISc, Bangalore  
 Dr. A K Shukla, IISc, Bangalore  
 Dr. C K Mathews, IGCAR, Kalpakkam

#### **1994**

Dr. K. Balakrishnan, CECRI, Karaikudi  
 Prof. S. V. Bhat, IISc, Bangalore  
 Prof. S. K. Biswas, IISc, Bangalore  
 Dr. R. N. Ghosh, NML, Jamshedpur  
 Prof. V. V. P. Kutumba Rao, BHU, Varanasi  
 Dr. S. K. Mitra, Tata Steel, Jamshedpur  
 Dr. T. S. Radhakrishnan, IGCAR, Kalpakkam  
 Dr. (Mrs). G. Rohini Devi, DRDL, Hyderabad  
 Dr. C. S. Sundar, IGCAR, Kalpakkam

Prof. M.S.Hegde, IISc, Banalore  
Prof. H.L.Bhat, IISc, Bangalore  
Dr. D.Bhattacharya, IIT, Kharagpur  
Dr. Sudhir S.Kulkarni, NCL, Pune  
Dr. C.Manohar, BARC, Mumbai  
Prof. A.K.Pal, IACS, Kolkata  
Dr.(Mrs) Indira Rajgopal, NAL, Bangalore  
Dr. C.P.Sharma, SCTIMST, Thiruvananthapuram  
Prof.S.V.Suryanarayana, OU, Hyderabad

### 1995

Prof.S.C.Agarawal, IIT, Kanpur  
Dr. A.K.Gupta, NPL, New Delhi  
Prof.T.R.N.Kutty, IISc, Bangalore  
Prof. L.M.Manocha, S.P.University, Vallabh Vidyanagar  
Dr.T.K.Mukherjee, BARC.Mumbai  
Dr.B.K.Sarkar, CGCRI, Kolkata  
Prof.Subrata Ray,Univ. of Roorkee, Roorkee  
Prof.Pushpa Bajaj, New Delhi  
Dr.Pran Kishan,SSPL, Delhi  
Prof.L.K.Malhotra,IIT, New Delhi  
Dr.O.N.Mohanty, TISCO,Jamshedpur  
Dr.V.S.Raghunathan, IGCAR, Kalpakkam  
Prof.S.P.Sengupta,IACS, Kolkata  
Prof.Shamsuddin,BHU,Varanasi

### 1996

Dr.B.M.Arora,TIFR, Mumbai  
Prof. A K Raychaudhuri,IISc,Bangalore  
Dr.A.K.Grover, TIFR, Mumbai  
Dr. E.V.Sampath Kumar, TIFR,Mumbai  
Dr. S. A. Shivashankar, IISc, Bangalore  
Dr. Subhash Chandra, NPL, Pune  
Dr. Vikram Jayaram, IISc, Bangalore  
Dr. Vijay Kumar, IGCAR, Kalpakkam  
Dr.Arun Umarji, IISc,Bangalore  
Dr.D.Bahadur, IIT, Mumbai  
Prof.T.Nagarajan, Madras University, Chennai  
Prof. R G Sharma, NPL, New Delhi  
Prof. R. P. Singh, IIT, Kharagpur  
Dr. K. Vijayamohanan, NCL, Pune  
Prof. U. V. Varadaraju, IIT, Chennai

### 1997

Dr. G. Banerjee, CGCRI, Kolkata  
Dr.K.Bhanu Sankara Rao, IGCAR, Kalpakkam  
Dr.A.Jayakrishna, SCTIMST, Thiruvananthapuram  
Dr. V. N. Krishnamurthy, VSSC, Thiruvananthapuram  
Dr. N. G. Nair, IIT, Chennai  
Dr. M. C. Pandey, DMRL, Hyderabad  
Dr. Rameshwar Jha, TISCO, Jamshedpur  
Prof. M. K. Surappa, IISc, Bangalore  
Dr. B P Sharma, BARC, Mumbai  
Dr. B. K. Godwal, BARC, Mumbai  
Prof. T. N. Guru Row, IISc., Bangalore  
Prof. S. B. Krupanidhi, IISc., Bangalore  
Dr. B. M. Mandal, IACS, Kolkata  
Dr. K. S. Narayan, JNCASR, Bangalore  
Prof. R. Pinto, TIFR, Mumbai  
Prof. V. D. Vankar, IIT,New Delhi  
Prof. V. N. Rajasekharan Pillai, M G University Kottayam

### 1998

Dr. A.K.Jha, RRL, Bhopal  
Prof. B. Viswanathan, IIT, Chennai  
Dr. Neeraj Khare, NPL, Delhi  
Dr.(Ms) Prabha R Chatterjee, ICT,Hyderabad  
Dr. P.R.Vasudeva Rao, IGCAR, Kalpakkam  
Prof. S.N. Kaul, Central University, Hyderabad  
Dr. G.Malakondaiah, DMRL, Hyderabad  
Dr. Om Prakash, BHU, Varanasi  
Dr. Prabha D Nair, SCTIMST, Thiruvananthapuram  
Dr. P.S.Goyal, BARC,Mumbai  
Mr. K.S.Ghosh, TISCO, Jamshedpur  
Dr. K.B.R.Varma, IISc, Bangalore  
Dr.T.Bandyopadhyaya,CGCRI, Kolkata

### 1999

Dr. R Balasubramanian, IIT Kanpur  
Dr. G V Kulkarni, JNCASR, Bangalore  
Dr. Navin Chand, RRL, Bhopal  
Dr. S K Ray, IGCAR, Kalpakkam  
Dr. K Sreenivas, SCTIMST, Thiruvananthapuram  
Dr. A Venkateswara Rao, Shivaji UniversityKolhapur  
Dr. Santanu Bhattacharya, IISc, Bangalore  
Dr. M K Banerjee, BEC, Bengal  
Dr. S Natarajan, JNCASR, Bangalore  
Dr. T Rajasekharan, DMRL, Hyderabad  
Dr. S M Sharma, BARC, Mumbai  
Dr. Swati Ray, IACS, Kolkata  
Dr. GVS Sastry, BHU, Varanasi

### 2000

Dr. R Bhattacharya, NPL, New Delhi  
Prof. Atul Choksi, IISc, Bangalore  
Dr. G P Das, BARC, Mumbai  
Dr. S C Gupta, BARC, Mumbai  
Dr. Y Hariharan, IGCAR, Kalpakkam  
Prof. I Manna, IIT, Kharagpur  
Prof. S N Ojha, BHU, Varanasi  
Dr. A R Raju, JNCASR, Bangalore  
Dr. T G Ramesh, NAL, Bangalore  
Prof. M K Sanyal, SINP, Kolkata  
Prof. Ajay Sood, IISc, Bangalore  
Dr. A K Suri, BARC, Mumbai  
Dr. V K Wadhawan, CAT, Indore

### 2001

Shri. Chintamani, NFC, Hyderabad  
Dr. A Ghosh, IACS, Kolkata  
Dr. Gurnam Singh, CAT, Indore  
Prof. R Nagarajan, TIFR, Mumbai  
Dr. G J Prasad, BARC, Mumbai  
Dr. K Sheela Ramasesha, NAL, Bangalore  
Dr. B Viswanathan, IGCAR, Kalpakkam  
Dr. G K Dey, BARC, Mumbai  
Dr. A Govindaraj, SSU, IISc, Bangalore  
Dr. M Jayabalan, SCTIMST, Thiruvananthapuram  
Dr. S K Pabi, IIT, Kharagpur  
Dr.N Ramakrishnan, DMRL, Hyderabad  
Dr. T Ramasami, CLRI, Chennai  
Dr. K G Satyanarayana, RRL,Thiruvananthapuram  
Dr. O M Sreedharan, IGCAR, Kalpakkam

### 2002

Prof. Ashok Misra, IIT, Bombay, Mumbai  
Dr. Bhuvaneshwar G S, SCTIMST, Thiruvananthapuram

Dr. Chaplot S L, BARC, Mumbai  
Prof. Damodara Das V, IIT, Madras, Chennai  
Prof. Devendra Kumar, BHU, Varanasi  
Kumar A N, Indian Institute of Technology, Delhi  
Majumdar S D, ACC, Thane  
Pawar S H, Shivaji University, Kolhapur  
Prof. Pradeep T, IIT, Madras, Chennai  
Prof. Ramakrishnan S, IISc, Bangalore  
Dr. Shobhana Narasimhan, JNCASR, Bangalore  
Prof. Shrikant V Joshi, ARC-I, Hyderabad  
Dr. Subramanian P N, VSSC, Thiruvananthapuram

### 2003

Dr. Amarnath Sen, CGCRI, Kolkata  
Dr. Bharathi A, IGCAR, Kalpakkam  
Prof. Bhupendra N Dev, Institute of Physics, Bhubaneswar  
Prof. Devang V Khakhar, IIT, Mumbai  
Prof. Jyothindra Kumar K, Govt. Dental College,  
Thiruvananthapuram

Dr. Kothiyal G P, BARC, Mumbai  
Dr. Maitra A N, Univ. of Delhi, Delhi  
Dr. Mitra R, IIT, Kharagpur  
Dr. Murali Sastry, NCL, Pune  
Prof. Narayanasamy A, Univ. of Madras, Chennai  
Dr. Pillai C K S, RRL, Thiruvananthapuram  
Prof. Sekhon S S, Guru Nanak Dev Univ, Amritsar  
Prof. Shanker Ram, IIT, Kharagpur

### 2004

Dr. B.C. Pai, RRL, Thiruvananthapuram  
Dr. Debabrata Basu, CGCRI, Kolkata  
Prof. A.K. Nandi, IACS, Kolkata  
Prof. B.S. Murty, IIT, Kharagpur  
Dr. Suman Kumari Mishra, NML, Jamshedpur  
Prof. B.R. Mehta, IIT, Delhi  
Dr. Pushan Ayyub, TIFR, Mumbai  
Dr. V. Venugopal, BARC, Mumbai  
Dr. M. Vijayalakshmi, IGCAR, Kalpakkam  
Dr. S.C. Jain, NFC, Hyderabad  
Dr. R.M.V. Gopalakrishna Rao, NAL, Bangalore  
Dr. B.D. Malhotra, NPL, Delhi  
Dr. T.L. Prakash, C-MET, Hyderabad

### 2005

Dr. Arvind Sinha, NML, Jamshedpur  
Dr. Balasubramanian S, JNCASR, Bangalore  
Dr. Budhani R C, IIT, Kanpur  
Prof. Byrappa K, Mysore University, Mysore  
Prof. Chandrasekaran S, IISc, Bangalore  
Dr. Goutam De, CGCRI, Kolkata  
Dr. Kulshreshtha S K, BARC, Mumbai  
Dr. Radhakrishnan S, NCL, Pune  
Dr. Sulabha Kulkarni, Pune University, Pune  
Prof. Subhadra Chaudhuri, IACS, Kolkata  
Dr. Tyagi A K (BARC, Mumbai)  
Dr. Umesh Waghmare, JNCASR, Bangalore

### 2006

Dr. Amlan J Pal, IACS, Kolkata  
Dr. Ganguli A K, IIT, Delhi  
Dr. George Thomas K, RRL, Thiruvananthapuram  
Prof. Kashyap B P, IIT, Mumbai  
Dr. Muraleedharan Nair K G, IGCAR, Kalpakkam  
Dr. Patra A, CGCRI, Kolkata

Dr. Poonam Tandon, Lucknow University, Lucknow  
Prof. Sampath S, IISc, Bangalore  
Dr. Sharada Srinivasan, NIAS, Bangalore  
Dr. Shivaprasad, S M, NPL, New Delhi  
Prof. Siddhartha Das, IIT, Kharagpur  
Dr. Srikanth S, NML, Chennai  
Dr. Swapan Pati K, JNCASR, Bangalore  
Dr. Upendra Natarajan, NCL, Pune

### 2007

Dr. Ajayaghosh A, RRL, Thiruvananthapuram  
Dr. Ashim Kumar Mukhopadhyay, DMRL, Hyderabad  
Dr. Ashok M Raichur, IISc, Bangalore  
Dr. Basu R N, CGCRI, Kolkata  
Dr. Chacko Jacob, IIT Kharagpur  
Dr. Chandrabhas N, JNCASR, Bangalore  
Dr. Parthasarathi G, NGRI, Hyderabad  
Dr. Pathak L C, NML, Jamshedpur  
Prof. Ranganathan R, SINP, Kolkata  
Dr. Subrata Chatterjee, Bengal Engg & Sci University,  
Howrah  
Dr. Sujeet Chaudhary, IIT-Delhi, New Delhi

### 2008

Dr. D P Amalnerkar, C-MET, Pune  
Prof. Arun Chattopadhyay, IIT, Guwahati  
Dr. Ashok Kumar Ray, NML, Jamshedpur  
Dr. Dilshad Akhtar, DMRL, Hyderabad  
Dr. R K Kotnala, NPL, New Delhi  
Prof. Y N Mohapatra, IIT-Kanpur  
Prof. N K Mukhopadhyay, BHU, Varanasi  
Prof. S K Ray, IIT, Kharagpur  
Dr. P Sujatha Devi, CGCRI, Kolkata  
Dr. Suresh Das, RRL, Thiruvananthapuram  
Dr. A K Tyagi, IGCAR, Kalpakkam  
Dr. S M Yusuf, BARC, Mumbai

### 2009

Dr. Absar Ahmad, National Chemical Laboratory, Pune  
Prof. A Basu Mallick, BESU, Shibpur, Howrah  
Dr. S K Bhaumik, NAL, Bangalore  
Dr. Karabi Das, IIT, Kharagpur  
Dr. T Prem Kumar, CECRI, Karaikudi  
Prof. A Sundaresan, JNCASR, Bangalore  
Dr. S Sethuraman, Center for Nanotechnology &  
Advanced Biomaterials, Thanjavur  
Dr. Shantikumar Nair, Amrita Institute of Nanoscience,  
Kochi  
Dr. M T Sebastian, NIIST, Trivandrum  
Prof. Subodh Kumar De, IACS, Kolkata  
Prof. Subhasis Ghosh, J N University, New Delhi  
Dr. Tata Narasinga Rao, ARC-I, Hyderabad  
Dr. B V R Tata, IGCAR, Kalpakkam  
Prof. Uday Maitra, IISc, Bangalore

### 2010

Dr. S R Barman, UGC-DAE Consortium for Scientific  
Research, Indore  
Dr. Subhasish Basu Majumder, IIT, Kharagpur  
Dr. D Ramaiah, NIST, Thiruvananthapuram  
Dr. T Gnanasekaran, IGCAR, Kalpakkam  
Prof. B Jagirdar, IISc, Bangalore  
Prof. R K Mandal, BHU, Varanasi

Dr. P K Khanna, C-MET, Pune  
Dr. V P S Awana, NPL, New Delhi  
Dr. P R Harikrishna Varma, SCTIMST, Trivandrum  
Dr. P K Biswas, CGCRI, Kolkata  
Dr. Bharat B Kale, C-MET, Pune  
Dr. D K Aswal, BARC, Mumbai  
Dr. K K Nanda, IISc, Bangalore  
Dr. A K Singh, DMRL, Hyderabad  
Prof. R Murugavel, IIT, Mumbai

### 2011

Dr. Avanish Kumar Srivastava, NPL, New Delhi  
Prof. Asim Bhaumik, IACS, Kolkata  
Dr. Harish C Barshilia, NAL, Bangalore  
Dr. John Philip, IGCAR, Kalpakkam  
Dr. C Gouri, VSSC, Thiruvananthapuram  
Prof. M Eswaramoorthy, JNCASR, Bangalore  
Dr. O S Panwar, NPL, New Delhi  
Dr. N Ravishankar, MRC, IISc, Bangalore  
Prof. Arindam Banerjee, IACS, Kolkata  
Prof. Rajiv Prakash, BHU, Varanasi  
Dr. L M Kukreja, RRCAT, Indore  
Dr. Anil Kumar P S, IISc, Bangalore  
Dr. Ram Gopal, Allahabad University, Allahabad

### 2012

Dr. B L V Prasad, NCL, Pune  
Prof. R Vijayaraghavan, VIT, Vellore  
Prof. I Samajdar, IIT, Mumbai  
Prof. T K Nath, IIT, Kharagpur  
Dr. S A R Hashmi, AMPRI, Bhopal  
Prof. K K Raina, Thapar University, Patiala  
Prof. (Mrs) S Manocha, S P University, Vallabh Vidyanagar  
Dr. Tarun K Mandal, IACS, Kolkata  
Dr. R Mukhopadhyay, BARC, Mumbai  
Dr. P Barat, Variable Energy Cyclotron Centre, Kolkata  
Prof. Vinay Gupta, University of Delhi, Delhi  
Prof. Arindam Ghosh, IISc, Bangalore  
Prof. Ratnamala Chatterji, IIT, New Delhi  
Prof. Bikramjit Basu, IISc, Bangalore  
Dr. Roy Johnson, ARC-I, Hyderabad  
Dr. Chandra Prakash, DRDO, Delhi

### 2013

Dr. Subi Jacob George, JNCASR, Bangalore  
Prof. Aninda J Bhattacharyya, IISc, Bangalore  
Dr. Sabu Thomas, M G University, Kottayam  
Dr. Kota Murali, IBM India, Bangalore  
Dr. Sheela Berchmans, CERI, Karaikudi  
Dr. G Padmanabham, ARC-I, Hyderabad  
Dr. A M Biradar, NPL, New Delhi  
Prof. Jyotsna Dutta Majumdar, BESU, Shibpur  
Dr. G Amarendra, IGCAR, Kalpakkam  
Dr. Kulamani Parida, Instt. of Minerals and Materials Technology, Bhubaneswar  
Dr. Nikhil K Singha, IIT, Kharagpur  
Dr. S K Gupta, BARC, Mumbai  
Dr (Mrs). Lakshmi Kantam, IICT, Hyderabad

**BEST PAPER PRIZE** (For publication in the Bulletin of Materials Science)

### 1990:

“A cold model study of mass transfer in Q-BOP” by Prof. S L Malhotra, Dr. S Singh and Dr. N Prasad, BHU, Varanasi, Bulletin of Materials Science, Vol. 12 (1989), p 369

### 1991:

“Thermodynamic properties of Pt<sub>5</sub>La, Pt<sub>5</sub>Ce, Pt<sub>5</sub>Pr, Pt<sub>5</sub>Tb and Pt<sub>5</sub>Tm, intermetallics” by Prof. K T Jacob, IISc, Bangalore and Prof. Y Waseda, Tohoku University, Sendai, Japan, Bulletin of Materials Science, Vol. 13, (1990), p 235

### 1992:

“Ordered structures in ternary hcp alloys” by Prof. S Lele and Dr. A K Singh, BHU, Varanasi, Bulletin of Materials Science, Vol. 14 (1991), p 11

### 1993:

“Dynamic Fracture Mechanics-A scientific tool for the prevention of catastrophic Failure” by Dr. R Krishna Kumar, Dept. of Mechanical Engineering, Indian Institute of Technology, Madras, Bulletin of Materials Science, Vol. 15 (1992), p 55

### 1994:

“EXAFS: Determination of Cation Distribution in Spinels” by Dr. G M Bhongale, Dr. D K Kulkarni, Dept. of Physics, Institute of Science, Nagpur and Dr. V B Sapre, Dept. of Physics, Nagpur University, Nagpur, Bulletin of Materials Science, Vol. 16 (1993), p. 243

### 1995:

“The role of additives in a complex lithium silicate glass ceramic” by Prof. R N Das, Prof. B K Chandrashekar, Ceramic Technological Institute, Bharat Heavy Electrical Ltd, Bangalore & Prof. K J Rao, Materials Research Centre, Indian Institute of Science, Bangalore, Bulletin of Materials Science, Vol. 17 (1994), p 59

1996: No prize was given in 1996.

### 1997:

“Crystallization of glass in Fireclay Refractories’ by Dr. S P Choudhury and Dr. T Dutta, CGCRI, Kolkata, Part II and Part III, Bulletin of Materials Science, Vol. 19 (1996), p 373.

### 1998:

‘A New inexpensive method for the preparation of acicular precursors for magnetic recording media’ by M R Anantharaman, K V Joseph and H V Keer, Dept. of chemistry, IIT, Mumbai, Bulletin of Materials Science, Vol. 20, (1997), p 975.

### 1999:

“Short term tissue response to carbon fibre : A preliminary *in vitro* and *in vivo* study’ by Mira Mohanty, T V Kumary, Division of Pathophysiology, SCTIMST, Thiruvananthapuram, Arthur V Lal, Vivarium & Materials Group, SCTIMST, Thiruvananthapuram and R Sivakumar, Biomedical Technology Wing, SCTIMST,



Thiruvananthapuram, Bulletin of Materials Science, Vol. 21 (6) (1998), p 439.

**2000:**

'Transmission Electron Microscopy and X-ray diffraction studies of Quantum Wells', by D V Sridhara Rao, L Muraleedharan, Electron Microscopy Group, DMRL, Hyderabad, G K Dey, Materials Science Division, BARC, Mumbai, S K Halder, G Bhagavannarayan, Materials Characterization Division, NPL, New Delhi, P Banerji, D Pal and D N Bose, Advanced Technology Centre, IIT, Kharagpur, Bulletin of Materials Science, Vol 22, No. 6, October (1999), pp. 947.

**2001:**

'Helium implanted AlHf as studied by  $^{181}\text{Ta}$  TDPAC' by R Govindaraj, Materials Science Division, IGCAR, Kalpakkam, K P Gopinathan, Dept. of Physics, Cochin University of Science & Technology, Cochin and B Viswanathan, Materials Science Division, IGCAR, Kalpakkam, Bulletin of Materials Science, Vol. 23, No. 3, June (2000), p 201

**2002:**

'Non Equilibrium Solidification of undercooled droplets during Atomization Process' by Prasanth Shukla, R K Mandal and S N Ojha, Centre for Advanced Study, Dept. of Metallurgical Engineering, Banaras Hindu University, Varanasi 221 005, Bulletin of Materials Science, Vol 24 (2001) p. 547.

**2003:**

'Preliminary *in vitro* and *in vivo* characterizations of a sol-gel derived bio-active glass ceramic system' by S Abhiraman, H K Varma, T V Kumari, P R Umashankar and Annie John, Biomedical Technology Wing, Sree Chitra Tirunal Institute of Medical Sciences & Technology, Thiruvananthapuram, Bulletin of Materials Science, Vol 25 (5) (2002), p 419.

**2004:**

'Development of fully Injectable Calcium Phosphate Cement for Orthopedic and Dental Applications' by Manoj Komath and H K Varma, Biomedical Technology Wing, Sree Chitra Tirunal Institute for Medical Sciences & Technology, Thiruvananthapuram, Bulletin of Materials Science, Vol 26 (4), (2003), p 415.

**2005:**

'Fabrication of silicon based glass fibres for optical communication' by Vivek P Kude, Department of Applied Physics, MGM College of Engineering, Nanded and R S Khairnar, School of Physical Sciences, SRTMU, Vishnupuri, Nanded, Bulletin of Materials Science, Vol 27 (1), February 2004, pp 73-77.

**2006:**

'Polyvinyl alcohol-cellulose composite: a taste sensing material' by Sarmishtha Majumdar and Basudam Adhikari, Materials Science Centre, Indian Institute of Technology, Kharagpur 721 302 Bulletin of Materials Science, Vol (28), No. 7, December 2005, pp. 703-712.

**2007:**

'Functional finishing in cotton fabrics using zinc oxide nanoparticles' by A Yadav, Virendra Prasad, A A Kathe,

Sheela Raj, Deepti Yadav, C Sundaramoorthy and N Vigneshwaran, Nanotechnology Group, Central Institute for Research on Cotton Technology, Mumbai 400 019, Bulletin of Materials Science, Vol (29), No. 6, November 2006, pp. 641-645.

**2008:**

'Effect of size of copper nanoparticles on its catalytic behaviour in Ullman reaction' by Mohd. Samim, N K Kaushik and Amarnath Maitra, Department of Chemistry, University of Delhi, Delhi 110 007, Bulletin of Materials Science, Vol 30 (2007) p.535

**2009:**

'Studies on Nanocrystalline Zinc Coating' by H B Muralidhara and Y Arthoba Naik, Department of PG Studies and Research in Chemistry, Kuvempu University, Shankaraghatta, Bulletin of Materials Science, Volume 31, (2008), pp.585.

**2010:**

"Low temperature synthesis of nanosized  $\text{Mn}_{1-x}\text{Zn}_x\text{Fe}_2\text{O}_4$  ferrites and their characterizations" by Rajesh Iyer, Rucha Desai and R V Upadhyay, Bulletin of Materials Science, Volume (32), No. 2, April 2009, pp. 141-147.

**2011:**

"Low temperature synthesis of  $\text{Ba}_{1-x}\text{Sr}_x\text{SnO}_3$  ( $x = 0-1$ ) from molten alkali hydroxide flux" by B Ramdas and R Vijayaraghavan, Materials Division, School of Advanced Sciences, VIT University, Vellore, Volume (33), No.1, February 2010, pp 75-78

**2012:**

"Formation of nanoscale tungsten oxide structures and colouration characteristics" by Vijay Bhooshan Kumar and Dambarudhar Mohanta, Nanoscience Laboratory, Department of Physics, Tezpur University, Tezpur, Volume 34, No 3, June 2011, pp 435

**2013**

"Pd grating obtained by direct micromolding for use in high resolution optical diffraction based sensing" by Ritu Gupta and Giridha U Kulkarni, Chemistry and Physics of Materials Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, Vol (35) No. 5, October 2012, pp. 773-779.

"Effect of  $\text{TiO}_2$  nanotube length and lateral tubular spacing on photovoltaic properties of back illuminated dye sensitized solar cell" by Shantikumar V Nair, A Balakrishnan, K R V Subramanian, A M Anu, A M Asha and B Deepika, Nano Solar Division, Amrita Centre for Nanosciences, Kochi. Vol (35), No. 4, August 2012, pp 489-493.

## **BEST POSTER PRIZES**

**2004:**

'MTMS based Superhydrophobic Silica Aerogels' by Manish M Kulkarni and A Venkateswara Rao, Dept. of Physics, Shivaji University, Kolhapur.

'Modifications to the Phase Diagram of (1-x)Pb [(Mg<sub>1/3</sub>Nb<sub>2/3</sub>)O<sub>3</sub>]-xPbTiO<sub>3</sub> Ceramics' by Akhilesh Kumar Singh, Dhananjai Pandey and Oksana Zaharko, Banaras Hindu University, Varanasi.

'Photoimageable conductor Composition for high Density Electronic Packaging of Smart Devices & Allied Subsystems' by Govind G Umarji, Supriya A Ketkar, R Marimuthu, G J Phatak, T Seth, D P Amalnerkar and U P Mulik, C-MET, Pune.

'Spin Probe ESR Studies of PEG<sub>x</sub>LiClO<sub>4</sub> Solid Polymer Electrolyte Systems' by Shrivalli N Bhat, Ajay Sharma, S Srinivas Rao and S V Bhat, Dept. of Physics, Indian Institute of Science, Bangalore.

#### 2005:

'Synthesis and characterization of Silica-Titania core-shell Particles' by Kalele S, Dey R.M., Hebalkar N., Godavi S. and Kulkarni S.K., Dept. of Physics, University of Pune

'Field Emission Characteristics of Rose petal like Nanostructured carbon thin films grown by MPECVD Process' by Srivastava S.K., Shukla A.K., Vanker V.D. and Kumar V, Department of physics, Indian Institute of Technology and National Physical Laboratory, Pusa, Delhi

'Synthesis and characterization of Zinc oxide Nanoparticles' by Ashtaputre, S.S., Marathe S.K., Gosavi S.W., and Kulkarni S.K., Dept. of Physics, Pune University

'Effect of Curing Temperature and Fibre Loading on the swelling behavior of Isora fibre reinforced Natural rubber Composites in oils used in automobiles' by Lovely Mathew, Joseph K.U. and Rani Joseph Department of Polymer Science and Rubber Technology, Cochin University of Science and Technology, Cochin

#### 2006:

'Nanotechnology via Solution Chemistry' by Shobhit C and Khanna P K, C-MET, Pune

'Superhydrophilic and Photocatalytic properties of Sol-Gel TiO<sub>2</sub> Thin Films on Glass' by Mahata S and Kundu Debtosh, CGCRI, Kolkata

'Observation of TO<sub>1</sub> soft mode in SrTiO<sub>3</sub> thin films by THZ-time domain spectroscopy' by Misra M, University of Lucknow, Lucknow, Kotani K, Kawayama I, Murakami H and Tonouchi M, Osaka University, Japan

'Stabilization of high temperature form of Orthorhombic CaCO<sub>3</sub> using reserve Micelles: source of Calcium Oxide Nanoparticles' by Ahmed J, Vaidya S, Ahmad T and Ganguli A K, Dept. of Chemistry, IIT- Delhi, New Delhi

'Studies on the performance of Cardanal based adhesives on different Substrates' by V Lity Allen, and Thachil Eby Thomas, Cochin University of Science and Technology, Kochi

'A new phase boundary in the phase diagram of (1-x)[Pb(Mg<sub>1/3</sub>Nb<sub>2/3</sub>)O<sub>3</sub>]-xPbTiO<sub>3</sub>' by Singh AK, Singh SP and Pandey D, BHU, Varanasi

#### 2007:

'Patterned silicon wafer for nanostructure growth' S K Panda and C Jacob, Materials Science Centre, Indian Institute of Technology, Kharagpur.

'Characterization of structural and magnetic transitions in Ni-Mn-Ga Heusler type alloys' Ranjan Kumar Singh, R Gopalan, R P Mathur, P Ghosal, V Chandrasekaran, Defence Metallurgical Research Laboratory, Hyderabad and M Shamsudin, Department of Metallurgical Engineering, Banaras Hindu University, Varanasi.

'Controllable tungsten oxide thin film nanostructures as cathodes for electrochromic smart windows' M Deepa, Govind, S M Shivaprasad, Shahzada Ahmad and A K Srivastava, National Physical Laboratory, Dr. K S Krishnan Road, New Delhi.

'Ultra high purification of gallium through multi-step processing for opto-electronic device applications' U Rambabu, N R. Munirathnam and T L Prakash, Centre for Materials for Electronics Technology, Hyderabad.

'Preparation and characterization of  $\beta$ -PVDF films' Anjana Jain, Kalyan Sundaram, V Vedha Prakash, National Aerospace Laboratories, Bangalore and H.H. Kumar, ARDE, Pashan, Pune

'Effect of Mn<sup>III</sup> acetylacetonate complexes on the hydrophilicity of nanocrystalline sol-gel derived TiO<sub>2</sub> films by dip-coating technique' Ravi Ranjan Pandey, C P Sharma, K K Saini, Vinod Tanwar, Chandra Kant, Davinder Singh, Balbir Singh, National Physical Laboratory, Dr. K S Krishnan Road, New Delhi and Man Singh, Department of Chemistry, Chemistry Research Lab, Deshbandhu College, University of Delhi, New Delhi.

#### 2008:

'Ultra High Purity Gallium (99.99999 % / 7N) for Opto and Micro Electronics Device Applications – An Indigenous Effort' U Rambabu and T L Prakash, C-MET, Hyderabad

'TG-DT Analysis for Carbon Assisted Synthesis of C:MgB<sub>2</sub>' B B Sinha, S C Chougale and S H Pawar, Shivaji University, Kolhapur

'Optical and Switching Studies on Near-Stoichiometric Nd:Zn:LiNbO<sub>3</sub> Crystals' J N Babu Reddy, K Ganesh Kamath, H L Bhat and Suja Elizabeth, Indian Institute of Science, Bangalore

'Role Head Group Structure in Regulating the Packing Density of Lipid Monolayers-Nerve Conduit Applications' K Kaladhar and C P Sharma, Sree Chitra Tirunal Institute for Medical Sciences and Technology, Thiruvananthapuram

**2009:**

“Size induced arrest of the room temperature crystallographic structure and destabilization of the charge ordered state in  $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$  nanocrystals” Tapati Sarkar, A K Raychaudhuri and Tapan Chatterji, SN Bose National Centre for Basic Sciences, Kolkata.

“Preparation of Al-Si graphite particulate reinforced composite through stir coating method and their structure property correlation” G Raja Ram, M Thirumurugan, S Kumaran and T Srinivas Rao, National Institute of Technology, Trichy.

” A novel approach for the synthesis of silicalite-1 Zeolite seed crystals and thin films” M K Naskar, D Kundu and M Chatterjee, Central Glass and Ceramic Research Institute, Kolkata.

“ $\beta$ -SiC/SiO<sub>2</sub> nanocables synthesized by APCVD technique”, S K Panda, J Sengupta and C Jacob, Indian Institute of Technology, Kharagpur.

“Influence of electron beam irradiation on cationic migration and structural morphology of  $\text{CuCoFe}_2\text{O}_4$  nanoparticles” M Balaji and D Pathinettam Padiyan, Manonmaniam Sundaranar University, Tirunelveli.

“Resonance energy transfer between dye and QD’s” Tapasi Sen, Krishna Kanta Haldar and Amitava Patra, Indian Association for the Cultivation of Science, Kolkata.

“Unique features of biomimetics as a method for coating biomedical implants by bone mineral (hydroxyapatite)” Jui Chakraborty, Manjush Chakraborty, Poulomi Bose, Tarak Das and Debabrata Basu, Central Glass and Ceramic Research Institute, Kolkata.

“Synthesis of Au@Pd nanoparticles in Alumina Sols” Debrina Jana, Anirban Dandapat and Goutam De, Central Glass and Ceramic Research Institute, Kolkata.

“Coalescence of Thiol-capped Au nanoparticles in a polymer matrix”, Nupur Biswas and Alokmay Datta, Saha Institute of Nuclear Physics, Kolkata.

“Visible photoluminescence from silicon and silicon oxide core-shell nanocomposites” Tuhin Shuvra Basu, Arpita Jana, Biplab Biswas and Mallar Ray, Bengal Engineering and Science University, Shibpur, Howrah.

**2010:**

‘HRTEM characterization of Ceria-Zirconia multilayer prepared by pulsed laser deposition’ by Chanchal Ghosh, Divakar Ramachandran, P Kuppusami, E Mohandas and D Santikumar, IGCAR, Kalpakkam and G Balakrishnan, National Institute of Technology, Tiruchirappalli.

‘Carbon/Silicon carbide composites with carbon nanotubes on Silicon carbide cloth Hybrid reinforcement’ by L M Manocha and Rajesh Pande, S P University, Vallabh Vidyanagar, Gujarat.

‘Thermal Plasma process for synthesis of crystalline nanotitania’ by Macwan Dhvani P, Dave P N, Nirma University, Ahmedabad, Balasubramanian C, Rayjada P

A and Chauhan N, Institute for Plasma Research, Ahmedabad.

‘Exploration of possible novel phases in Ge-Sn system using LHDAC’ by Y A Sorb, N R Sanjay Kumar, N V Chandra Shekar, M Sekar, T R Ravindran, N Subramanian, and Ch. Sahu, IGCAR, Kalpakkam

‘Nanocaral Architectural TiO<sub>2</sub> form hydrothermal route’ by S S Mali, Shivaji University, Kolhapur, C A Betty, BARC, Mumbai, P N Bhosale and P S Patil, Shivaji University, Kolhapur.

**2011**

‘Biosensing Studies of Capped ZnS Nanoparticles for Sensing Applications’ by Manoj Sharma and O.P. Pandey, School of Physics and Materials Science, Thapar University, Patiala 147004

‘Investigation of fiber treatment on Fiber/Matrix Adhesion and Physico-Mechanical Properties of Sisal Reinforced Polyester composites’ by Ruhi Haque, Mohini Saxena, S.C. Shit and P. Ashokan Advanced Materials and Processes Research Institute (CSIR), Bhopal- 462064

‘A novel approach to Electro-optic and Thermo-chromic behavior of Polymer Stabilized Liquid Crystal composite film’ by Rishi Kumar and K.K.Raina, Material Research Laboratory, School of Physics and Material Science, Thapar University, Patiala 147004, India

‘Size controlled synthesis of zinc oxide rods via sonochemical process’ by Arpita Jana, P Sujatha Devi and N R Bandyopadhyay, School of Materials Science and Engineering Bengal Engineering and Science, University, Shivpur,

**2012 :**

“Morphological studies of langmuir Blodgett films of polyaniline-TiO<sub>2</sub> composite material”, Gurpreet Kaur Bhullar and K K Raina, Thapar University, Patiala.

“Synthesis of self sequestering surfactant from methyl isoricinoleate with maleic and phthalic anhydride and determination of stability constant with Ca<sup>2+</sup> ions complexometrically” Sushil Kumar, Bhai Gurdas Institute of Engineering and Technology, Sangrur, R P Singh, Guru Nanak Dev Engineering College, Ludhiana and Sukhprit Singh, Guru Nanak Dev University, Ludhiana.

“Chemical compatibility of borosilicate glasses with YSZ for SOFC applications”, Gurbinder Kaur, O P Pandey and K Singh, Thapar University, Patiala.

“Vivid studies pertaining to synthesis of nanostructures of molybdenum oxide”, Nilam Qureshi, Manish Shinde, Govind Umarji, Uttam Malik and Dinesh Amalnerkar, C-MET, Pune.

“Growth of thick ZnO thin films for acoustic sensors and SAW devices”, Reema Gupta, Vinay Gupta, Kajal Jindal, Anjali Sharma, Monika Tomar, University of Delhi, Delhi, Mahanth Prasad, Arti Arora, CEERI, Pilani.

“Preparation and characterization of barium hexaferrite prepared from barium monoferrite”, Samiksha Verma, Pooja Chauhan, O P Pandey and Puneet Sharma, Thapar University, Patiala.

“Hierarchical nanostructures of  $CdIn_2S_4$  via hydrothermal and microwave methods”, Sunil N Garaje, Sanjay K Apte, Sonali D Naik and Nharat B Kale, C-MET, Pune.

### 2013

“Glassy behavior in multiferroic  $Ba_3 NbFe_3Si_2O_{14}$  “ by Satyapal Singh Rathore and Satish Vitta, Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai – 400 076, India

“Rare Earth Intermetallic compounds  $RCoNi$  ( $R = Gd, Tb, Dy$  and  $Ho$ ) for low temperature magnetic refrigeration applications” by Rajib Mondal, Department of Physics, Indian Institute of Technology Madras, Chennai 600 036, R. Nirmala, Department of Physics, Indian Institute of Technology Madras, 600 036, J. Arout Chelvane, Defence Metallurgical Research Laboratory, Hyderabad 500 058, India  
A. K. Nigam, Tata Institute of Fundamental Research, Mumbai 400005,

“Tuning the photoluminescence of ferroelectric liquid crystal by controlling the size of dopant  $ZnO$  quantum dots” by Prasun Ganguly, T. Joshi, D Haranath, and A M Biradar, CSIR-National Physical Laboratory, Dr. K.S. Krishna Road, New Delhi-110012, S. Singh, Department of Physics, Banaras Hindu University, Varanasi – 221005,

“Ligament coarsening in Nanoporous Gold : A Positron Annihilation Study” by V. A. Chirayath, R. N. Viswanath, R. Rajaraman, G. Amarendra, C.S. Sundar, Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakkam 603 102

“Structural Characteristics and mechanical properties of Reactive DC magnetron sputtered nanocrystalline  $TiN$  thin films at target power of 50 W” by Dinesh Kumar D, and R Jayavel Centre for Nanosciences and Technology, Anna University, Chennai – 600 025, India, and S. Kalaiselvam, Department of Mechanical Engineering, Anna University, Chennai – 600 025, India

### INFORMATION COLLECTION AND DISSEMINATION SYSTEM

The Technology Information Forecasting and Assessment Council (TIFAC) has identified MRSI as a nodal agency for developing a data base for non-ferrous materials. In this connection, TIFAC has provided financial support to create a data bank on non-ferrous materials at MRSI headquarters, DMRL, Hyderabad dedicated for the purpose of data acquisition and storage pertaining to non-ferrous materials, technologies for their processing and areas of their application. A group of professionals with diverse background in Metallurgy, Computer Science and Library / Information science are working with this project. Presently the data bank consists of 1325

technology records on Non-ferrous Materials and it has published many value-added reports in the area of Non-ferrous Materials.

It has been decided to shift the MRSI/TIFACLINE Unit to ARC-International, Hyderabad. Its scope will be widened to cover the areas of ceramics, powder metallurgy and surface engineering.

### PUBLICATIONS

MRSI co-sponsors the publication of Bulletin of Materials Science (BMS) published by the Indian Academy of Sciences. In addition, several special issues of BMS have been brought out. The BMS published 144 papers in 1031 pages of scientific articles in 2012. The BMS is available on the internet (<http://www.ias.ac.in/materisci/>). Starting January 2007, the Bulletin of Materials Science is co-published with Springer. Along with hyperlinks to other relevant sites, Springer provides access to the content of the Bulletin worldwide in an online full-text database on Springer link ([www.springerlink.com](http://www.springerlink.com)).

MRSI is also bringing out the MRSI Newsletter which includes the ‘Calendar of Events’ where the forthcoming conferences/symposia/workshops related to Materials Science are listed along with the name and address of the contact persons. The MRSI Newsletter is being edited by Dr. K K Nanda. Since 2011, only electronic version of the Newsletter is being published.

### INTERNATIONAL COOPERATION

MRSI is a founding Adhering Body of the International Union of Materials Research Societies (IUMRS).

IUMRS together with C-MRS, MRS-INDIA, MRS-JAPAN, MRS-KOREA and MRS-TAIWAN reached an important decision in October 1992 to launch a new series of MRS Conference in Asia. The series is titled “The IUMRS International Conference in Asia” or IUMRS-ICA. The first conference of this series, IUMRS-ICA 1993, was organized by C-MRS. Later it was organized by MRS-Taiwan in 1994, MRS-Korea in 1995, MRS-Japan in 1997, MRS India in 1998, MRS China in 1999, MRS Hong Kong in 2000, MRS Mexico in 2001. No conference was held in 2002. MRS Singapore organized the ICA in 2003, MRS Taiwan in 2004. No conference was held in 2005 and MRS Korea organized in 2006.

MRSI hosted the IUMRS-ICA-98 conference in Bangalore during October 13-16, 1998 which was highly successful.

The prestigious conference IUMRS-ICAM was held in Bangalore, during October 8-13, 2007.

MRSI is a founding member of Asia Pacific Academy of Materials (APAM). It has continued its strong links with APAM. Prof. CNR Rao is its Founder President. Currently Prof. Kuznetsov is its President. APAM has members from India, Russia, Japan, China, Uzbekistan, Korea, Taiwan and Australia.

The APAM India chapter holds its annual meeting in conjunction with the AGM of MRSI. APAM-India Chapter

has 55 members. Prof. O N Srivastava is the acting President of APAM India Chapter.

## **HONORARY MEMBERS**

*(elected during the period 1990-2013)*

*(year in the bracket indicates the year of election)*

- Ajayan P M**, Rice University, USA (2008)  
**Akihisa Inoue**, Tohoku University, Japan, (2001)  
**Alan Windle**, University of Cambridge, U.K, (2003)  
**Alario-Franco M A**, Ciudad Universitaria, Spain, (1992)  
**Aleksandrov Kirill S**, L V Kirensky Institute of Physics, Russia, (1992)  
**Amelinckx S**, RUC Dept. of Physics, Belgium, (1991)  
**Amiya Mukherjee**, University of California, U.S.A, (1997)  
**Andrade Joseph D**, MEB, U.S.A, (1996)  
**Angell C A**, Tempe, Arizona, U.S.A, (1999)  
**Armstrong Ronald W**, Univ. of Maryland, U.S.A, (1995)  
**Arsenault R J**, University of Maryland at College Park, U.S.A, (1995)  
**Ashby M F**, University of Cambridge, U.K, (1990)  
**Baglin John E E**, IBM Almaden Research Center, U.S.A., (1990)  
**Bandyo Y**, National Institute for Materials Science, Japan (2010)  
**Bentini G C**, CNR-Via GOBETTI, Italy, (1992)  
**Blinic R**, J. Stefan Institute, Slovenia, (1992)  
**Bonfield William**, University of Cambridge, U.K, (1993)  
**Brandon D G**, Lehigh University, U.S.A, (1993)  
**Cahn John W**, National Institute of Standards and Technology, U.S.A, (1993)  
**Cantor Brian**, University of Oxford, U.K, (1996)  
**Catlow C R A**, Davy Faraday Laboratory, The Royal Institution, U.K, (1996)  
**Chad A Mirkin**, Northwestern University, USA (2013)  
**Chakravorthy B K**, CNRS Lepas, 25 Avenue De Martyrs, France, (1991)  
**Chang R P H**, Northwestern University, U.S.A, (1990)  
**Chaudhari Praveen**, Watson Research Centre of Physical Sciences, U.S.A, (1990)  
**Chennupati Jagadish**, Australian National University, Australia (2012)  
**Cheetham A K**, University of California, U.S.A, (1994)  
**Chon Min Che**, 6-28, Shinkyodong Chongnoku South, Korea, (1992)  
**Chowdari BVR**, National University of Singapore, Singapore 119260, (2001)  
**Chunli Bai**, Chinese Academy of Science, China (2013)  
**Clearfield A**, Texas A & M University, U.S.A, (1996)  
**Cottrell Alan**, University of Cambridge, U.K, (1992)  
**Cyrot-Lackman Francois**, IEPES-CNRSC, BP 166X-380, France, (1991)  
**Day P**, The Royal University of Great Britain, U.K, London, (1994)  
**Dayananda M A**, Purdue University, U.S.A, (1997)  
**Disalvo F J**, Baker Laboratory, U.S.A, (1996)  
**Doyama M**, Teikyo University of Science & Technology, Japan, (1990)  
**Embury J D**, McMaster University, Canada, (1993)  
**Esaki Leo**, Shibaura Institute of Technology, Japan, (1995)  
**Etourneau J**, Institut de Chimie de la Matiere Condensee de, France, (1994)  
**Dresselhaus Mildred S**, Massachusetts Institute of Technology, U.S.A, (1991)  
**Edwards P P**, The University of Birmingham, U.K, (1995)  
**Ferey Gerard**, University of Versailles, France, (1998)  
**Fernando Lund**, CIMAT, Chile, (2004)  
**Frank Karasz**, Univ. of Massachusetts, U.S.A, (2003)  
**Fred Lange**, Univ. of California, U.S.A, (2000)  
**Frolov K V**, Russian Academy of Sciences, Russia, (1990)  
**Fujihara K**, Yokohama National University, Japan, (1996)  
**Fujishima A**, University of Tokyo, Tokyo, Japan, (1995)  
**Gatos Harry C**, Massachusetts Institute of Technology, U.S.A, (1991)  
**George M Whitesides**, Harvard University, U.S.A, (0)  
**Glasow Peter A**, D-91054, Germany, (1994)  
**Gleiter H**, Institute of Nanotechnology, Germany, (1994)  
**Gonzalez Calbet**, Universidad Complutense, Spain, (1997)  
**Goodenough John B**, Univ. of Texas (1990)  
**Granquist C G**, Uppsala Universitet, Sweden, (2001)  
**Greenblatt Martha**, RUTGERS, The State University of New Jersey, U.S.A, (1995)  
**Greenwood G W**, Univ. of Sheffield, U.K, (1997)  
**Greer A L**, Univ. of Cambridge, U.K, (2002)  
**Gschneidner K A**, Iowa State University, U.S.A, (1993)  
**Hagemuller P**, Univ. of Bordeaux I, France, (1990)  
**Heeger A J**, Institute of Organic Solids & Polymers, U.S.A, (1998)  
**Hirsch Peter**, Univ. Oxford, U.K, (1990)  
**Honig Jurgen M**, Purdue University, U.S.A, (1990)  
**Hsiao Tsechiang**, Northeast University, China, (1995)  
**Inokuchi H**, National Space Development Agency of Japan, Japan, (1999)  
**Interante L V**, Rensselaer Polytechnic, U.S.A, (1994)  
**Jack Kenneth H**, U.K, (1991)  
**Jagdish Narayan**, North Carolina State University, U.S.A, (2000)  
**Jain S C**, IMEC, Belgium, (2001)  
**Jayaraman A**, Carnegie Institution of Washington, U.S.A, (1990)  
**Kaldis E**, Laboratorium Fur Festkorperphysic, Switzerland, (1992)  
**Khabibullaev P K**, Uzbek Academy of Sciences, Uzbekistan, (1992)  
**Kitazawa Koichi**, School of Frontier Sciences, Japan, (1991)  
**Kishi T**, NIMS, Japan (2007)  
**Knut Urban**, am Institut fur Festkorperforschung, Germany, (2000)  
**Koichi Niihara**, Osaka University, Japan, (2001)  
**Koinuma H**, Tokyo Inst. of Technology, Japan, (1996)  
**Kolster B H**, Wentholtweg 9, 721y EE EPSE, Netherlands, (1992)  
**Kroenig M**, Fraunhofer Institute of Non-Destructive Testing, Germany, (2000)  
**Kroto H W**, Univ. of Sussex, U.K, (1992)  
**Kuo K H**, Chinese Academy of Sciences, China, (1992)  
**Kumar H Wikramasinghe**, University of California, USA (2011)

- Kuznetsov F A**, Institute of Inorganic Chemistry, Russia, (1990)
- Leslie Eric Cross**, The Penn State University, U.S.A, (1994)
- Li Heng-De**, Tsinghua University, China, (1990)
- Livage J**, Universite Pierre et Marie Curie 4, France, (1995)
- Lucas Jacques**, Laboratoire Verres & Céramiques, France, (2005)
- Luecke Kurt**, Selzerbeeklaan 26, 6297, HW Vaals, Netherlands, (1993)
- Mackay A L**, Univ.of London, U.K, (1993)
- Mahajan Subash**, Carnegie Mellon University, U.S.A, (1991)
- Margolin Harold**, Polytechnical University, U.S.A, (1995)
- Martin Jansen**, Germany, (2002)
- Masahiro Yoshimura**, Tokyo Institute of Technology, Japan, (2003)
- Masumoto T**, The Research Institute for Electric, and Magnetic Materials, Japan, (1995)
- Matthew Tirrell**, Univ.of California, U.S.A, (2004)
- McHenry Michael E**, Carnegie Mellon University, 500 Forbe Ave, U.S.A, (1998)
- Merzhanov A G**, Institute of Structure Macrokinetics & Materials Science, Russia, (1997)
- Metzner Arthur B**, University. of Delaware, Dept. of Chemical Engineering, U.S.A, (1991)
- Michael Klein**, Director, LSRM, Laboratory for the Study of Materials, USA, (2005)
- Mordike Barry L**, Univ.of Malta, Europe, (1991)
- Mrityunjay Singh**, Ohio Aerospace Institute, USA (2011)
- Narendra B Dahotre**, University of North Texas, Texas, USA (2012)
- Narayanamurthy V**, Harvard University, U.S.A, (1995)
- Newnham R E**, Pennsylvania State University, U.S.A, 16802, (1993)
- Nishizawa J I**, Semiconductor Research Institute, Japan, (1992)
- Ole K Andersen**, Max-Planck Institute for Solid State Research, Germany, (2010)
- Ossipyan Yu A**, Russian Academy of Sciences, Russia, (1991)
- Parrinello M**, Max-Planck-Institut für Festkörperforschung, Germany, (1999)
- Patel C K N**, Pranalytical Inc, 1101 Colorado Avenue, U.S.A, (1991)
- Paul Attfield J**, The University of Edinburgh, U.K, (2006)
- Pouchard M**, Membre de Institut Universitaire de France, France, (1994)
- Ramdas A K**, Purdue University, U.S.A, (1990)
- Rao Tummala R**, Georgia Institute of Technology, U.S.A, (1992)
- Rath Bhakta B**, Naval Research Laboratory, U.S.A, (1990)
- Raveau Benard**, University De Caen, Chimie Du Solide, Boulv Du, Marechal Juin, France, (1991)
- Roberts M W**, Cardiff University, U.K, (1994)
- Robert Honeycombe**, Cambridge University, U.K, (1992)
- Roesky H W**, Institut für Anorganische Chemie, Germany, (1997)
- Rousset A**, UMR-CNRS 5085, Universite Paul Sabatier, France, (1993)
- Roy Rustum**, The Pennsylvania State University, U.S.A, (1990)
- Ruehle M**, Max-Planck Institut für Metallforschung, (1995)
- Sellers C M**, The University of Sheffield, PO Box.600, U.K, (1994)
- Shechtman D**, Technion, Israel, (1997)
- Shichang Zou**, Shanghai Institute of Metallurgy, Chinese Academy of Sciences, China, (1992)
- Siegel R W**, Rensselaer Polytechnic Institute, U.S.A, (1992)
- Siffert Paul**, CNRS/PHASE B.P. 20, F-67037 Strasbourg Cedex 2, France, (1990)
- Sleight A W**, Oregon State University, U.S.A, (1995)
- Smalley R E**, Rice University, U.S.A, (1992)
- Somasundaran P**, Columbia University in the City of New York, U.S.A, (1991)
- Somiya Shigeyuki**, Nishi Tokyo University, Japan, (1990)
- Subramanian M A**, Dupont Company, U.S.A, (2002)
- Sunil K Sinha**, Argonne National Laboratory, U.S.A, (2001)
- Suresh Subra**, MIT, USA (1996)
- Tanaka K**, Joint Research Center for Atom Technology (JRCAT) Japan, (1993)
- Taplin D M R**, Univ.of Plymouth, U.K, (1993)
- Tarascon J M**, Universitat Picardie, Lab. of Reactivity & Chemistry of Solids, France, (1996)
- Thomas G**, Univ.of California, U.S.A, (1994)
- Thomas J M**, The Royal Inst. of Great Britain, U.K, (1996)
- Tokura Y**, Univ.of Tokyo, Japan, (1997)
- Toshiaki Enoki**, Graduate School of Science & Engineering, Japan, (2005)
- Underhill A E**, University College of North Wales, U.K, (1995)
- Vallet Regi**, Universidad Complutense De Madrid, Spain, (1997)
- Vijh Ashok K**, Institute De Recherche, d' Hydro-Quebec (IREQ), Canada, (1991)
- Vinayak P Dravid**, Northwestern University, USA (2011)
- Vincenzini P**, International Academy of Ceramics, Italy, (1992)
- Wasa Kiyotaka**, 2-7-27 Chiyogaoka, Japan, (1991)
- Waseda Y**, Sendai, Japan (2007)
- Welland M E**, University of Cambridge, UK (2008)
- West A R**, The University of Sheffield, U.K, (1994)
- Williams David F**, Univ.of Liverpool, U.K, (1990)
- Williams J S**, Royal Melbourne Institute of Technology, Australia, (1992)
- Wu Ping-Tien**, Asia Chemical Corp, Taiwan, (1992)
- Yacaman M J**, The University of Texas at Austin, U.S.A, (1992)
- Yan Dongsheng**, Chinese Academy of Science, China, (1990)
- Yanagida Hiroshi**, Univ.of Tokyo, Japan, (1991)
- Yoshiyuki Kawazoe**, Tohoku University, Japan, (2002)
- Zhao Z S**, National Lab for Superconductivity, China (1991)

## ANNUAL GENERAL MEETINGS

Sl. No	AGM	Venue	Organizers
1.	1990	National Chemical Laboratory, Pune	<i>Chairman:</i> R A Mashelkar
2.	1991	National Physical Laboratory, New Delhi	<i>Chairman:</i> S K Joshi <i>Secretary:</i> B K Das
3.	1992	Indian Institute of Science, Bangalore	<i>Chairman:</i> Ranganathan S <i>Convenor:</i> A M Umarji
4.	1993	Regional Research Laboratory, Thiruvananthapuram	<i>Chairman:</i> A D Damodaran
5.	1994	Research Centre, Imarat, Hyderabad	<i>Chairman:</i> S L N Acharyulu
6.	1995	Indian Institute of Technology, Kharagpur	<i>Chairman:</i> K L Chopra <i>Convenor:</i> H D Banerjee
7.	1996	Indian Institute of Science, Bangalore	<i>Chairman:</i> A K Singh
8.	1997	Bhabha Atomic Research Centre, Mumbai	<i>Chairman:</i> C K Gupta <i>Secretary:</i> G E Prasad
9.	1998	Indian Institute of Technology, Chennai	<i>Chairman:</i> R Natarajan
10.	1999	Regional Research Laboratory, Bhopal	<i>Convenor:</i> T C Rao
11.	2000	Sardar Patel University, Vallabh Vidyanagar	<i>Chairman:</i> V S Patel <i>Convenor:</i> L M Manocha
12.	2001	Saha Institute of Nuclear Physics, Kolkata	<i>Convenor:</i> M K Sanyal
13.	2002	Defence Metallurgical Research Laboratory, Hyderabad	<i>Convenor:</i> D Banerjee
14.	2003	Bhabha Atomic Research Centre, Mumbai	<i>Chairmen:</i> Ashok Misra / S Banerji
15.	2004	Banaras Hindu University, Varanasi	<i>Chairman:</i> P Ramachandra Rao <i>Convenor:</i> S Lele
16.	2005	National Chemical Laboratory, Pune	<i>Chairman:</i> S Sivaram <i>Convenor:</i> K Vijayamohan
17.	2006	University of Lucknow, Lucknow	<i>Chairman:</i> R P Singh <i>Convenor:</i> Poonam Tandon
18.	2007	National Physical Laboratory, New Delhi	<i>Chairman:</i> Vikram Kumar <i>Convenor:</i> Anil K Gupta
19.	2008	Sree Chitra Tirunal Institute for Medical Sciences & Technology, Thiruvananthapuram	<i>Chairman:</i> G S Bhuvaneshwar <i>Convenor:</i> D S Nagesh
20.	2009	Saha Institute of Nuclear Physics, Kolkata	<i>Chairman:</i> N R Bandyopadhyay
21.	2010	Sardar Patel University, Vallabh Vidyanagar, Gujarat	<i>Chairman:</i> L M Manocha
22.	2011	AMPRI, Bhopal	<i>Chairman:</i> Anil K Gupta
23.	2012	Thapar University, Patiala	<i>Convenor:</i> K K Raina
24.	2013	IGCAR, Kalpakkam	<i>Chairman:</i> C S Sundar
25.	2014	Indian Institute of Science, Bangalore	<i>Chairman:</i> S B Krupanidhi

## **Patron Membership**

Professional Societies, Research bodies, Laboratories and Companies willing to support activities of MRSI (through a one-time contribution of Rs. 50,000/- are enrolled as Patron members by the Council of the MRSI.

### **Privileges of Patron Members**

- Publication of their names in MRSI Newsletter
  - Bulletin of Materials Science / MRSI Newsletter
  - MRSI Update
  - Free supply of all periodicals published by MRSI such as:
    - Symposium proceedings at prices applicable to members
    - Display of Company Literature free of charge at MRSI meetings
    - Discounts on advertisements in Newsletter
    - Advance notification of programmes and events
    - Free employment Advertisements in the MRSI Newsletter
    - Registration of 2 company representatives in each society meeting at member registration rates

*We appeal to all organizations /laboratories/companies involved in the R&D/Educational activities of Materials Science and Technology to become Patron members.*

*Request for Patron membership may be made to:*

**Prof. S B Krupanidhi**  
**General Secretary, MRSI**  
**Materials Research Centre**  
**Indian Institute of Science**  
**Bangalore 560 012**  
**Email : office@mrsi.org.in**

**Book Post / Newsletter**

**From:**

**Editors**

**MRSI Newsletter**

**Materials Research Society of India**

**IISc Campus**

**Bangalore 560 012**